

**NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEW**

The drawing(s) filed (insert date) 11/12/99 are:

A.  approved by the Draftsperson under 37 CFR 1.84 or 1.152.  
 B.  objected to by the Draftsperson under 37 CFR 1.84 or 1.152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. Corrected drawing must be submitted according to the instructions on the back of this notice.

37 CFR 1.13: Use of notes is to recommend changes before filing or to submit further comments or information.

1. **DRAWINGS.** 37 CFR 1.84(e): Acceptable categories of drawings: 37 CFR 1.84(e) of 37 CFR 1.84(e).  
 Black/ink: Color (in negative or white) to gray scale from the right. Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s) \_\_\_\_\_  
 Color drawings are not acceptable until petition is granted.  
 Fig(s) \_\_\_\_\_  
 Pencil and non-black ink not permitted: Fig(s) \_\_\_\_\_  
 37 CFR 1.84(e) of 37 CFR 1.84(e).  
 2. **PHOTOGRAPHS.** 37 CFR 1.84 (b)  
 — 1 full-tone set is required. Fig(s) \_\_\_\_\_  
 — Photographs not properly mounted (must use bristol board or photographic double-weight paper). Fig(s) \_\_\_\_\_  
 — Poor quality (half-tone). Fig(s) \_\_\_\_\_  
 3. **TYPE OF PAPER.** 37 CFR 1.84(e)  
~~1.84(e)~~ Paper not flexible, strong, white, and durable. Lines/numbers & letters not uniformly, thick and well defined, clean, durable, and black (poor line quality).  
 Fig(s) \_\_\_\_\_  
~~1.84(e)~~ Erasures, alterations, overwritings, underlinings, and other markings not permitted. Fig(s) \_\_\_\_\_  
~~1.84(e)~~ Folds, copy/machine marks not accepted. Fig(s) \_\_\_\_\_  
~~1.84(e)~~ Mylar, velum paper is not acceptable (too thin).  
 Fig(s) \_\_\_\_\_  
 4. **SIZE OF PAPER.** 37 CFR 1.84(f): Acceptable sizes:  
 — 21.0 cm by 29.7 cm (DIN size A4)  
 — 21.6 cm by 27.9 cm (8 1/2 x 11 inches)  
~~1.84(f)~~ All drawing sheets not the same size:  
 Sheet(s) \_\_\_\_\_  
 Drawings sheets not an acceptable size. Fig(s) \_\_\_\_\_  
 5. **MARGINS.** 37 CFR 1.84(g): Acceptable margins:  
~~1.84(g)~~ Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm  
 SIZE: A4 Size  
 Top 2.5cm Left 2.5cm Right 1.5cm Bottom 1.0cm  
~~1.84(g)~~ Top 2.5cm Left 2.5cm Right 1.5cm Bottom 1.0cm  
 SIZE: 8 1/2 x 11  
 Margins not acceptable. Fig(s) \_\_\_\_\_  
 Top (T) \_\_\_\_\_ Left (L) \_\_\_\_\_ Between left margin and title block \_\_\_\_\_  
 Right (R) \_\_\_\_\_ Bottom (B) \_\_\_\_\_  
 6. **VIEWS.** 37 CFR 1.84(h)  
 REMINDER: Specification may require revision to correspond to drawing changes.  
 Partial views. 37 CFR 1.84(h)(2)  
 — Brackets needed to show figure as one entity. Fig(s) \_\_\_\_\_  
 — Views not labeled separately or properly. Fig(s) \_\_\_\_\_  
 — Enlarged view not labeled separately or properly. Fig(s) \_\_\_\_\_  
 7. **SECTIONAL VIEWS.** 37 CFR 1.84 (h)(3)  
 — Hatching not indicated for sectional portions of an object. Fig(s) \_\_\_\_\_  
 — Sectional designation should be noted with Arabic or Roman numbers. Fig(s) \_\_\_\_\_

**8. ARRANGEMENT OF VIEWS.** 37 CFR 1.84(i) of 37 CFR 1.84(i).  
 Color drawings are not acceptable until petition is granted.  
 Fig(s) \_\_\_\_\_  
 Pencil and non-black ink not permitted: Fig(s) \_\_\_\_\_  
 37 CFR 1.84(k) of 37 CFR 1.84(k).  
 Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Fig(s) \_\_\_\_\_  
 9. **CHARACTER OF LINES, NUMBERS, & LETTERS.** 37 CFR 1.84(i)  
 Lines/numbers & letters not uniformly, thick and well defined, clean, durable, and black (poor line quality).  
 Fig(s) \_\_\_\_\_  
 Erasures, alterations, overwritings, underlinings, and other markings not permitted. Fig(s) \_\_\_\_\_  
 Folds, copy/machine marks not accepted. Fig(s) \_\_\_\_\_  
 Solid black areas pale. Fig(s) \_\_\_\_\_  
 Solid black shading not permitted. Fig(s) \_\_\_\_\_  
 Shaded lines: pale, rough and blurred. Fig(s) \_\_\_\_\_  
 10. **CHARACTER OF LINES, NUMBERS, & LETTERS.** 37 CFR 1.84(i)  
 Lines/numbers & letters not uniformly, thick and well defined, clean, durable, and black (poor line quality).  
 Fig(s) \_\_\_\_\_  
 Erasures, alterations, overwritings, underlinings, and other markings not permitted. Fig(s) \_\_\_\_\_  
 Folds, copy/machine marks not accepted. Fig(s) \_\_\_\_\_  
 Solid black areas pale. Fig(s) \_\_\_\_\_  
 Solid black shading not permitted. Fig(s) \_\_\_\_\_  
 Shaded lines: pale, rough and blurred. Fig(s) \_\_\_\_\_  
 11. **NUMBERS, LETTERS, & REFERENCE CHARACTERS.** 37 CFR 1.84(p)  
 Numbers and reference characters not plain and legible. Fig(s) \_\_\_\_\_  
 Figure legends are poor. Fig(s) \_\_\_\_\_  
 Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  
 Fig(s) \_\_\_\_\_  
 English alphabet not used. 37 CFR 1.84(p)(2)  
 Fig(s) \_\_\_\_\_  
 Numbers, letters and reference characters must be at least .32 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)  
 Fig(s) \_\_\_\_\_  
 12. **LEAD LINES.** 37 CFR 1.84(q)  
 — Lead lines cross each other. Fig(s) \_\_\_\_\_  
 — Lead lines missing. Fig(s) \_\_\_\_\_  
 13. **NUMBERING OF SHEETS OF DRAWINGS.** 37 CFR 1.84(i)  
 — Sheets not numbered consecutively, and in Arabic numerals, beginning with number 1. Sheet(s) \_\_\_\_\_  
 14. **NUMBERING OF VIEWS.** 37 CFR 1.84(v)  
 — Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) \_\_\_\_\_  
 15. **CORRECTIONS.** 37 CFR 1.84(w)  
 — Corrections not made from prior PTO-948 dated \_\_\_\_\_  
 16. **DESIGN DRAWINGS.** 37 CFR 1.152  
 — Surface shading shown not appropriate. Fig(s) \_\_\_\_\_  
 — Solid black shading not used for color contrast. Fig(s) \_\_\_\_\_

**COMMENTS**

\* REMOVE BRACKETS, [ ], ON BOTH SIDES OF THE FIG. LABELS.

REVIEWER JAM DATE 01/11/2000 TELEPHONE NO. (703)308-0366

ATTACHMENT TO PAPER NO. \_\_\_\_\_